Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-42 (cancelled)

43.(currently amended) A method of bonding orthodontic appliances to a patient's teeth comprising:

providing orthodontic appliances for at least two teeth of the patient's dental arch;

providing a quantity of photocurable material for each appliance;

placing each orthodontic appliance on a corresponding tooth of the patient's dental arch such that the photocurable material is between the appliance and the tooth;

providing a substrate and an array of solid state light emitters mounted on the substrate,

placing the substrate and the array of light emitters in the oral cavity adjacent the orthodontic appliances such that the array of light emitters lie along a path that is located in an occlusal direction from the outer tips of the patient's teeth; and

activating the light emitters in order to direct light from the light emitters in a gingival direction across the surfaces of the teeth and toward the photocurable material.

44. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 43 wherein the array is connected to a substrate that comprises an indirect bonding placement device.

45. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 44 wherein the placement device comprises a shell having an overall, generally "U"-shaped configuration in plan view.

46. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 44 wherein the placement device has a channel that corresponds to the shape

of at least a portion of the patient's dental arch, and wherein the array is located adjacent the channel.

47. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 46 wherein the array extends along a longitudinal axis of the channel.

48. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 43 wherein the act of activating the light emitters includes the act of directing light through a light-transmissive matrix material.

49. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 43 and including the act of holding the substrate by clamping the substrate between the upper and lower teeth of the patient.

50. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 43 wherein the substrate is generally flat.

51. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 43 wherein the array of light emitters is connected to a substrate, and wherein the substrate has a curved longitudinal axis.

52. (Previously Presented) A method of bonding orthodontic appliances to a patient's teeth according to claim 43 wherein the substrate has an overall length that generally matches the length of a quadrant of the patient's dental arch.